CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD REGION 9, SAN DIEGO REGION

ATTACHMENT E

MONITORING AND REPORTING PROGRAM

ORDER NO. R9-2005-0091 NPDES PERMIT NO. CA0107336

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ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

The Code of Federal Regulations (CFR) at 40 CFR 122.48 requires that NPDES permits specify monitoring and reporting requirements. The California Water Code (CWC) sections 13267 and 13383 authorize this Regional Board to require technical and monitoring reports. This Monitoring and Reporting Program establishes monitoring and reporting requirements to implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

- A. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of this Regional Board.
- B. Monitoring must be conducted according to United States Environmental Protection Agency (U.S. EPA) test procedures approved under Title 40, United States Code of Federal Regulations (CFR), Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act* as amended, unless other test procedures are specified in Order No. R9-2005-0091 and /or this Monitoring and Reporting Program and/or this Regional Board.
- C. A copy of the monitoring reports signed, and certified as required by Reporting Requirement E.2. of Attachment D of Order No. R9-2005-0091 shall be submitted to the Regional Board at the address listed in Section X.B.7 of this Monitoring and Reporting Program.
- D. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by Order No. R9-2005-0091 and this Monitoring and Reporting Program, and records of all data used to complete the application for Order No. R9-2005-0091. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. This period may be extended by request of this Regional Board or by the U.S. EPA at any time.
- E. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services. Or by a laboratory approved by this Regional Board.
- F. The Discharger shall report in its cover letter all instances of noncompliance not reported under Section E.5. of Attachment D to Order No. R9-2005-0091 at the time monitoring reports are submitted. The reports shall contain the information listed in Section E.5. of Attachment D to Order No. R9-2005-0091.
- G. All monitoring instruments and devices used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.

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- H. Monitoring results shall be reported at intervals and in a manner specified in Order No. R9-2005-0091 or in this Monitoring and Reporting Program.
- I. This Monitoring and Reporting Program may be modified by this Regional Board, as appropriate.

II. MONITORING LOCATIONS

The Discharger shall establish monitoring locations as listed in *Table 1. Monitoring Locations*.

Table 1. Monitoring Locations.

Discharge Point Name	Monitoring Location Name	Monitoring Location Description
	E-INF	Representative sample location for East intake system.
	W-INF	Representative sample location for West intake system.
001	M-001	Representative sample location for East treatment system effluent. (32 ° 46′ 03" N; 117 ° 13′ 33" W)
002	M-002	Representative sample location for West treatment system effluent. (32 ° 46′ 04" N; 117 ° 13′ 40" W)
	R-001	Receiving Water sample location approximately 50 feet from the East Outfall location (001)
	R-001	Receiving Water sample location approximately 50 feet from the West Outfall location (002)

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Locations E-INF (East Intake) and W-INF (West Intake)

1. The Discharger shall monitor the influent to the facility at E-INF and W-INF as specified in *Table 2. Influent Monitoring Requirements*.

Table 2. Influent Monitoring Requirements.

Parameter	Units	Sample Type	Minimum Sampling	Required Test
			Frequency	Method
Suspended	mg/L	24-hr.	Quarterly	1
Solids		composite		
Fecal Coliform	MPN/100 mL	Grab	Weekly	1
Total Coliform	MPN/100 mL	Grab	Weekly	1
Enterococcus	MPN/100 mL	Grab	Weekly	1

All sample analysis shall be done in accordance with 40 CFR 136.3.

2. Influent samples shall be collected on the same day as, and shortly before the collection of effluent samples.

IV. EFFLUENT MONITORING REQUIREMENTS

- **A.** Monitoring Location M-001 (East Effluent Sampling Location) and M-002 (West Effluent Sampling Location).
 - 1. The Discharger shall monitor the East effluent discharge at M-001 and the West effluent discharge at M-002 as specified in *Table 3. Effluent Monitoring Requirements*.

Table 3. Effluent Monitoring Requirements.

Table 3. Effluent Monitoring Requirements.					
Parameter	Units	Sample Type	Monitoring Frequency	Required Test Method	
Flow	MGD	Continuous	Continuous	1	
pН	Units	Grab/Continuous	Weekly	1	
Total Coliform	MPN/100 mL	Grab	Weekly	1	
Fecal Coliform	MPN/100 mL	Grab	Weekly	1	
Enterococcus	CFU/100 mL	Grab	Weekly	1	
Residual Chlorine	μg/L lbs/day ³	Grab/Continuous Calculated ³	Weekly	1	
Temperature	°C	Grab/Continuous	Monthly	1	
Suspended Solids	mg/L	24 hr. composite	Quarterly	1	
Settleable Solids	ml/L	Grab	Quarterly	1	
Oil and Grease	mg/L lbs/day ³	Grab Calculated ³	Semi-annual	1	
Turbidity	NTU	24 hr. composite	Semi-annual	1	
Copper ²	μg/L lbs/day ³	24 hr. composite Calculated ³	Semi-annual	1	
Silver ²	μg/L lbs/day ³	24 hr. composite Calculated ³	Semi-annual	1	
Ammonia	mg/L lbs/day ³	24 hr. composite Calculated ³	Semi-annual	1	
Acute Toxicity ⁴	TUa	24 hr composite	Annual	1	
Chronic toxicity ^{4,5}	TUc	24 hr composite	Once in five years.	1	

All parameters shall be analyzed by the methods specified in 40 CFR 136.3.

Q = flow rate, million gallons per day (MGD)

² All metals shall be reported as total recoverable.

 $^{^3}$ lbs/day shall be calculated by the discharger for each monitoring event using the following formula: lbs/day = 0.00834 * effluent concentration (µg/l) * Q where:

⁴ Whole Effluent Toxicity Monitoring requirements are specified in Section V of this MRP.

2. Samples shall not be collected within three days following a storm event.

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Acute Toxicity

Acute toxicity monitoring shall be conducted annually. The Discharger shall conduct annual toxicity test on 24-hour composite effluent samples. The Discharger shall conduct 96-hour static-renewal tests with the top smelt, *Atherinops affinis*. The effluent concentrations will be 100%, and a laboratory control. The effluent tests must be conducted with concurrent reference toxicant tests. Both the reference toxicant and the effluent test must meet all test acceptability criteria as specified. If the test acceptability criteria are not achieved, then the permittee must re-sample and re-test within 14 days. If acceptable test results are not achieved on the retest, a toxicity reduction evaluation may be requested by this Regional Board.

Acute toxicity is to be calculated using the following formula:

$$TUa = \frac{100}{96 - hr \ LC \ 50\%}$$

Where Lethal Concentration 50% (LC 50) shall be determined by static or continuous flow bioassay techniques using standard test species. If specific identifiable substances in wastewater can be demonstrated by the discharger as being rapidly rendered harmless upon discharge to the aquatic environment, but not as a result of dilution, the LC 50 may be determined after the test samples are adjusted to remove the influence of those substance.

$$TUa = \frac{Log (100 - S)}{1.7}$$

Where:

S = percentage survival in 100% waste If S > 99, TUa shall be reported as zero

Compliance with the acute toxicity effluent limitation shall be determined by short-term (acute) toxicity tests on undiluted effluent using an established protocol, e.g., American Society for Testing and Materials (ASTM), American Public Health Association, US EPA, or SWRCB.

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⁵ Chronic toxicity results are due one year prior to the expiration date of the permit.

B. Chronic Toxicity

Critical life stage toxicity tests shall be performed to measure chronic toxicity (TUc). Testing shall be performed using methods outlined in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms* (Chapman, G.A., D.L. Denton, and J.M. Lazorchak, 1995) or *Procedures Manual for Conducting Toxicity Tests Developed by the Marine Bioassay Project* (SWRCB, 1996).

Chronic toxicity is to be calculated using the following formula:

$$TUc = \frac{100}{NOEL}$$

Where: No Observed Effect Level (NOEL) is expressed as the maximum percent effluent or receiving water that causes no observable effect on a test organism, as determined by the result of a critical life stage toxicity test as listed in Appendix II of the 2001 Ocean Plan.

Other tests may be used, if they have been approved for such testing by the State Water Resources Control Board. Dilution and control water should be obtained from an unaffected area of the receiving waters. The Discharger shall meet the chronic toxicity effluent limitation after initial dilution of the effluent has taken place. The chronic toxicity test species are listed in *Table 4. Approved Tests for Chronic Toxicity*.

A minimum of three test species with approved test protocols shall be used to measure compliance with the chronic toxicity objective. The test species shall include a fish, an invertebrate and an aquatic plant. After initial screening, monitoring may be reduced to the most sensitive species. Dilution and control water should be obtained from an unaffected area of the receiving waters or from another saltwater source such as filtered seawater from Scripps Institution of Oceanography. The sensitivity of the test organisms to a reference toxicant shall be determined concurrently with each bioassay test and reported with the test results.

Table 4. Approved Tests for Chronic Toxicity.

Species	Test	Tier ¹	Reference ²
giant kelp, Macrocystis	percent germination; germ tube	1	a, c
pyrifera	length		
red abalone, Haliotis	abnormal shell development	1	a, c
rufescens			
oyster, Crassostrea gigas;	abnormal shell development;	1	a, c
mussels, Mytilus spp.	percent survival		
urchin, Strongylocentrotus	percent normal development	1	a, c
purpuratus; sand dollar,			
Dendraster excentricus			
urchin, Strongylocentrotus	percent fertilization	1	a, c
purpuratus; sand dollar,			
Dendraster excentricus			

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Species	Test	Tier ¹	Reference ²
shrimp, Homesimysis costata	percent survival; growth	1	a, c
shrimp, Mysidopsis bahia	percent survival; fecundity	2	b, d
top smelt, Atherinops affinis	larval growth rate; percent survival	1	a, c
Silversides, Menidia beryllina	larval growth rate; percent survival	2	b, d

First tier methods are preferred for compliance monitoring. If first tier organisms are not available, the discharger can use a second tier test method following approval by the Regional Water Board.

- a. Chapman, G.A., D.L. Denton, and J.M. Lazorchak. 1995. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms. U.S. EPA Report No. EPA/600/R-95/136.
- b. Klemm, D.J., G.E. Morrison, T.J. Norberg-King, W.J. Peltier, and M.A. Heber. 1994. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms. U.S. EPA Report No. EPA-600-4-91-003.
- c. SWRCB 1996. Procedures Manual for Conducting Toxicity Tests Developed by the Marine Bioassay Project. 96-1WQ.

Weber, C.I., W.B. Horning, I.I., D.J. Klemm, T.W. Nieheisel, P.A. Lewis, E.L. Robinson, J. Menkedick and F. Kessler 9eds). 1998. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA/600/4-87/028. National Information Service, Springfield, VA.

C. Toxicity Reduction Evaluation

If requested by this Regional Board, the discharger shall develop a Toxicity Reduction Evaluation (TRE) work plan in accordance with the TRE procedures established by the U.S. EPA in the following guidance manuals:

- 1. Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (EPA/600/2-88/070).
- 2. Toxicity Identification Evaluation, Phase I (EPA/600/6-91/005F).
- 3. Methods for Aquatic Toxicity Identification Evaluations, Phase II (EPA/600/R-92/080).
- 4. Methods for Aquatic Toxicity Identification Evaluations, Phase III (EPA/600/R-92/081).

If toxicity effluent limitations identified in Discharge Specification IV.A.1 of this Order are exceeded, then within 15 days of the exceedence, the discharger shall begin conducting six additional toxicity tests over a six-month (at least one sample per calendar month) period and provide the results to the Regional Board. The additional monthly toxicity tests will be incorporated into the semiannual discharge monitoring reports submitted pursuant to MRP No. R9-2005-0091.

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² Protocol References:

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If the additional monthly tests indicate that toxicity effluent limitations are being consistently violated (at least three exceedences out of the six tests), the Regional Board may recommend that the discharger conduct a TRE and a Toxic Identification Evaluation (TIE), as identified in the approved TRE work plan.

If the Discharger conducts the TRE/TIE, the Discharger shall, within 15 days of completion of the TRE/TIE, submit the results of the TRE/TIE, including a summary of findings, identified sources of toxicity, a list of corrective actions necessary to achieve consistent compliance with all the toxicity limitations of this Order and prevent recurrence of violations of those limitations and a time schedule for implementations of such corrective actions. The corrective actions and time schedule shall be modified at the direction of the Regional Board.

- VI. LAND DISCHARGE MONITORING REQUIREMENTS (NOT APPLICABLE)
- VII. RECLAMATION MONITORING REQUIREMENTS (NOT APPLICABLE)
- VIII. RECEIVING WATER MONITORING REQUIREMENTS
 - A. Visual Storm Water Observations

The Discharger shall conduct visual observations of all storm water discharges for storm water bypass discharge locations to observe the presence of floating and suspended materials, oil and grease, discoloration, turbidity and odor. The presence/absence of each of these parameters shall be documented for each storm water discharge location.

IX. OTHER MONITORING REQUIREMENTS

A. Priority Pollutant Monitoring.

The Discharger shall conduct effluent monitoring for the priority pollutants for which there are no effluent limitations established in the permit and listed in Attachment J. In addition, the Discharger shall conduct receiving water monitoring for the priority pollutants, at the same time effluent samples are collected. Further, the Discharger must analyze the pH of the receiving water concurrent with the analysis for the priority pollutants.

This monitoring shall occur at the following locations:

- 1. Outfall locations. (Outfall Nos. M-001 and M-002).
- 2. Receiving water. A monitoring location shall be established 50 feet from each outfall (R-001 and R-002).

The Discharger shall conduct CTR monitoring once during the term of the permit. Monitoring shall be conducted between February 1, 2009 and July 31' 2009. The results of this CTR monitoring data shall be submitted at least 180 days prior to the expiration date of this Order and shall be submitted with the Report of Waste Discharge.

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B. Regional Watershed/Ocean Monitoring

The Discharger shall participate and coordinate with state and local agencies and other dischargers in the San Diego Region in development and implementation of a regional watershed or ocean monitoring program for Mission Bay as directed by this Regional Board. The intent of a regional monitoring program is to maximize the efforts of all monitoring partners using a more cost-effective monitoring design and to best utilize the pooled resources of the region. During the coordinated monitoring effort, the discharger's sampling and analytical effort may be reallocated to provide a regional assessment of the impact of discharges to Mission Bay.

C. Special Studies

Core monitoring may include intake monitoring, effluent monitoring, receiving water monitoring, and groundwater monitoring. This Order includes core monitoring for influent and effluent. In addition to core monitoring requirements, the Discharger may be required to conducted additional monitoring. Special studies are intended to be short-term and designed to address specific research or management issues that are not addressed by the routine core monitoring program. The Discharger shall implement special studies as directed by this Regional Board.

The Discharger shall participate and coordinate with state and local agencies and other dischargers in the San Diego Region in development and implementation of a regional monitoring program for Mission Bay as directed by this Regional Board. The intent of a regional monitoring program is to maximize the efforts of all monitoring partners using a more cost-effective monitoring design and to best utilize the pooled resources of the region. During a coordinated sampling effort, the Discharger's sampling and analytical effort may be reallocated to provide a regional assessment of the impact of discharges to the receiving water.

D. Storm Water Sampling

The Discharger shall conduct sampling of storm water by-passes from the Facility to evaluate the presence of potential pollutants. Within two years after the adoption date of Order No. R9-2005-0091, the Discharger shall conduct two monitoring events of the storm water by-pass discharge points during active storm water by-passes. Sampling shall be conducted at representative storm water discharge locations during normal operational hours. The results of the storm water by-pass monitoring shall be submitted to this Regional Board no later than 90 days following the second sampling event. The Discharger shall collect grab samples for all pollutants specified in *Table 5*. *Storm Water By-Pass Monitoring*.

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Table 5. Storm Water By-Pass Monitoring.

Pollutant	Unit	Sample Type	
pН	Units	Grab	
Temperature	°F	Grab	
Total Coliform	MPN/100 mL	Grab	
Fecal Coliform	MPN/100 mL	Grab	
Enterococcus	CFU/100 mL	Grab	
Residual Chlorine	μg/L	Grab	
Suspended Solids	mg/L	Grab	
Settleable Solids	ml/L	Grab	
Grease and Oil	mg/L	Grab	
Turbidity	NTU	Grab	
Silver	μg/L	Grab	
Copper	μg/L	Grab	
Ammonia	mg/L	Grab	

All sampling and analysis shall be conducted pursuant to 40 CFR 136.

E. Storm Water Pollution Control Plan Required Monitoring

- 1. A minimum of four quarterly visual inspections of all storm water drainage areas and associated potential pollutant sources shall be completed each reporting year. The annual comprehensive site compliance evaluation described in Section 9 of Attachment I may substitute for one of the quarterly inspections.
- 2. Any changes and follow-up procedures shall be documented to ensure appropriate corrective actions and/or SWPPP revisions are implemented.
- 3. A summary of the corrective actions and SWPPP revisions resulting from quarterly inspections shall be reported in the annual report.
- 4. Dischargers shall certify in the annual report that each quarterly visual inspections were completed.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping and the general monitoring and reporting requirements below. In cases where the monitoring and reporting requirements contained within this section, and the Standard Provisions (Attachment D) conflict, the more stringent of the two requirements apply.

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² Results shall be expressed as total recoverable.

- 2. The discharger shall file a new Report of Waste Discharge not less than 180 days prior to the following:
 - a. Addition of any industrial waste to the discharge or the addition of a new process or product resulting in a change in the character of the wastes.
 - b. Significant change in disposal method (e.g. change in the method of treatment which would significantly alter the nature of the waste).
 - c. Significant change in disposal area (e.g. moving the discharge to a disposal area significantly removed from the original area, potentially causing different water quality or nuisance problems).
 - d. Increase in flow beyond that specified in this Order.
 - e. Other circumstances, which result in a material change in character, amount, or location or the waste discharge.
- 3. The discharger must notify this Regional Board, in writing, at least 30 days in advance of any proposed transfer of this facility to a new discharger. The notice must include a written agreement between the existing and new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgment that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable after the transfer date.
- 4. Except for data determined to be confidential, all reports prepared in accordance with the terms of this Order shall be available for public inspection at the offices of the California Regional Water Quality Control Board, San Diego Region and the United States Environmental Protection Agency, Region IX. As required by the Clean Water Act, Reports of Waste Discharge, this Order, and effluent monitoring data shall not be considered confidential.

B. Self Monitoring Reports

- 1. At any time during the term of this permit, the Discharger, after notification by the State or Regional Board, may be required to electronically submit self-monitoring reports. Until such time as electronic submission of self-monitoring reports is required, the Discharger shall submit self-monitoring reports in accordance with the requirements described further below.
- 2. The Discharger shall submit monthly, quarterly, semiannual, and annual Self Monitoring Reports including the results of all required monitoring and monitoring conducted in addition to the minimum required monitoring and using USEPA approved test methods or other test methods specified in this Order. Monthly reports shall be due on the 1st day of the second month following the end of each calendar month; Quarterly reports shall be due on

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- May 1, August 1, November 1, and February 1 following each calendar quarter; Semiannual reports shall be due on August 1 and February 1 following each semiannual period; Annual reports shall be due on February 1 following each calendar year.
- 3. Monitoring periods for all required monitoring shall commence according to the schedule specified in *Table 6. Monitoring Periods*.

Table 6. Monitoring Periods.

Sampling Frequency	Monitoring Period Starts On	Monitoring Period	Reporting Due with SMR on
Continuous	April 13, 2005	All	First day of second month following month of sampling
Daily	April 13, 2005	Calendar day (Midnight through 11:59 PM) (Alternatively, specify 24-hour period that constitutes a day)	First day of second month following month of sampling
Weekly	April 24, 2005	Sunday through Saturday	First day of second month following month of sampling
Monthly	May 1, 2005	1 st day of calendar month through last day of calendar month	First day of second month following month of sampling
Quarterly	July 1, 2005	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	May 1 August 1 November 1 February 1
Semiannual	July 1, 2005	January 1 through June 30 July 1 through December 31	August 1 February 1
Annual	January 1 2006	January 1 through December 31	February 1
1/5 years	February 1, 2009 through July 31 2009	Over the term of the permit	April 13, 2009

- 4. The Discharger shall report with each sample result the applicable Minimum Level (ML) and the laboratory current Method Detection Limit (MDL) as determined by the procedure in 40 CFR Part 136.
- 5. The Discharger shall submit data on a copy of the Monitoring and Reporting Form provided as Attachment G. Additional data, and data required to be submitted as an attachment to the reporting form must be arranged in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
- 6. Self Monitoring Reports must be submitted to the Regional Board, signed and certified as required by the standard provisions (Attachment D).

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7. The Discharger shall attach a cover letter to its Self Monitoring Report. The information contained in the cover letter shall clearly identify violations of the WDR, discuss corrective actions taken or planned and the proposed time schedule of corrective actions. Identified violations should include a description of the requirement that was violated and a description of the violation. Monitoring results must be reported on forms approved by this Regional Board. Self Monitoring Reports shall be submitted to the addresses listed in *Table 7. Regional Board Address*.

Table 7. Regional Board Address.

Submit monitoring reports to:

California Regional Water Quality Control Board San Diego Region 9174 Sky Park Court, Suite 100 San Diego, California 92123-4340

Attention: Industrial Compliance Unit

Notifications required to be provided to this Regional Board shall be made to:

Telephone – (858) 467-2952 or

Facsimile – (858) 571-6972

C. Discharge Monitoring Reports

- 1. As described in Section X.B.1 above, at any time during the term of this permit, the Discharger, after notification by the State or Regional Board, may be required to electronically submit self-monitoring reports. Until such time as electronic submission of self-monitoring reports is required, the Discharger shall submit discharge monitoring reports (DMR) in accordance with the requirements described further below.
- 2. DMR must be signed and certified as required by the standard provisions (Attachment D). The Discharge shall submit the original DMR and one copy to the address listed *Table 8. State Board Address*.

Table 8. State Board Address.

Submit DMR to:

State Water Resources Control Board Discharge Monitoring Report Processing Center Post Office Box 671 Sacramento, CA 95812

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3. All discharge monitoring results must be reported on the official USEPA pre-printed DMR forms (EPA Form 3320-1). Forms that are self generated or modified cannot be accepted.

D. Self Monitoring Form

As specified in Section VII.B.4 of this Monitoring and Reporting Program, the Discharger shall submit data to the Regional Board using a copy of the Monitoring and Reporting Form provided as Attachment G to Order No. R9-2005-0091. Additional monitoring data and applicable signatory requirements should be submitted as an attachment to this form.

E. Other Reports (Not Applicable)

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